**Snowstorm countermeasures for highways in Hokkaido**

**Template 2：**for short version abstract (1-2pages).

Please assume the Proceedings will be opened on HP in the future.

 (Delete this text-box when submission)

**- Snowbreak forest in Okhotsk Area -**

Toshikazu SAWAMATSU1, Hiroki YUASA1, Hideki HONDA2, Yoshinori KAWASHIMA3,

Masaru MATSUZAWA4 and Shuhei TAKAHASHI5

*1Abashiri Development and Construction Department, Hokkaido Regional Development Bureau, MLIT, Abashiri, Japan*

*2Koken Engineering Co., Ltd., Sapporo, Japan*

*3Docon Co., Ltd., Sapporo, Hokkaido, Japan*

*4Civil Engineering Research Institute for Cold Region, Sapporo, Japan*

*5Okhotsk Sea Ice Museum of Hokkaido, Mombetsu, Japan*

**ABSTRACT**

**Introduction**

Hokkaido is designated as a snowy cold region, and the Okhotsk Area has particularly severe weather in winter. In recent years, ..............................

....................................................................................................................................................................................................................................................................................................................................................................

.......................................................................................

**Observation method**

Low-pressure systems that bring heavy snowfall and snowstorms to Hokkaido have various characteristics, depending on their paths (Kawamura and others, 2007).

There are three major types of low-pressure systems: 1) a low-pressure system .........................................

Observation area is shown in Fig. 1 (Takahashi and Kosugi, 2010).

 .................................................................................................................................................................................................................................. ...............................................................................................

................................................ ...................................................................................................

............................................... ....................................................................................................

Map of observation area

(or observation scenery and so on)

Fig. 1 Map of observation area.

**Results**

This paper has explained road traffic disruption in the Okhotsk Area, which has particularly...........

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

.......................................................................................

**References**

Kawamura, K., F. Parennin and 16 others (2007): Northern hemisphere forcing of climatic cycles in Antarctica over the past 360,000 years. *Nature*, **448**, 912-916.

Takahashi, S. and T. Kosugi (2010): Sea-ice extent variations along the Okhotsk coast of Hokkaido and Shiretoko Peninsula’s ‘Dam Effect’ against sea ice flow. *Proc. 25th Intnatl. Symp. on Okhotsk Sea & Sea Ice*, Mombetsu, Japan, **25**, 25-28.

(If possible)

**Summary in Japanese**

1760年前後のオランダ捕鯨船による

北極域の気象学的・地理学的観測

Gaston DEMARÉE1，田上善夫2， Pascal MAILIER1，Astrid E. J. OGILVIE3,4, 三上岳彦5

1ベルギー王立気象研究所，2富山大学，

3ステファンソン北極研究所，4コロラド大学ボルダー校，

5首都大学東京

捕鯨とニシン漁業は、オランダ黄金時代（1600-1800）の主要な経済活動の担い手であった。.........

.......................................................................................

.......................................................................................

.......................................................................................

Correspondence person’s name and mail address.

Correspondence to: G. R. Demarée, xxxxx@yyyyy.zz

Copyright ©2025 The Okhotsk Sea & Polar Oceans Research Association. All rights reserved.